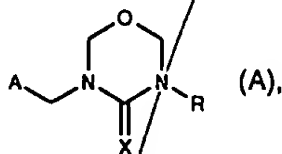


WHAT IS CLAIMED IS:

1. A composition for controlling insects or representatives of the order Acarina, which comprises a combination of variable amounts of one or more compounds of the formula



in which

A is an unsubstituted or, depending on the possibility of substitution on the ring system, mono- to tetrasubstituted, aromatic or non-aromatic monocyclic or bicyclic heterocyclic radical, in which the substituents of A are chosen from the group consisting of C₁-C₃alkyl, C₁-C₃alkoxy, halogen, halo-C₁-C₃alkyl, cyclopropyl, halocyclopropyl, C₂-C₃alkenyl, C₂-C₃alkynyl, halo-C₂-C₃alkenyl, halo-C₂-C₃alkynyl, halo-C₁-C₃alkoxy, C₁-C₃alkylthio, Halo-C₁-C₃alkylthio, allyloxy, propargyloxy, allylthio, propargylthio, haloallyloxy, haloallylthio, cyano and nitro;

R is hydrogen, C₁-C₆alkyl, phenyl-C₁-C₄alkyl, C₃-C₆cycloalkyl, C₂-C₆alkenyl or C₂-C₆alkynyl; and

X is N-NO₂ or N-CN,

in the free form or in salt form, if appropriate tautomers, in the free form or salt form, and one or more of the compounds:

- | | | |
|----------------------------|--------------------------|--------------------------|
| (I) aldicarb; | (XIV) zeta-Cypermethrin; | (XXVII) methamidophos; |
| (II) azinphos-methyl; | (XV) deltamethrin; | (XXVIII) methomyl; |
| (III) benfuracarb; | (XVI) diflubenzuron; | (XXIX) mevinphos; |
| (IV) bifenthrin; | (XVII) endosulfan; | (XXX) parathion; |
| (V) buprofezin; | (XVIII) ethiofencarb; | (XXXI) parathion-methyl; |
| (VI) carbofuran; | (XIX) fenitrothion; | (XXXII) phosalone; |
| (VII) dibutylaminothio; | (XX) fenobucarb; | (XXXIII) pirimicarb; |
| (VIII) cartap; | (XXI) fenvalerate; | (XXXIV) propoxur; |
| (IX) chlorofluazuron; | (XXII) formothion; | (XXXV) teflubenzuron; |
| (X) chloropyrifos; | (XXIII) methiocarb; | (XXXVI) terbufos; |
| (XI) cyfluthrin; | (XXIV) heptenophos; | (XXXVII) triazamate; |
| (XII) lambda-cy-halothrin; | (XXV) imidacloprid; | (XXXVIII) abamectin; |
| (XIII) alpha-cypermethrin; | (XXVI) isoprocarb; | (XXXIX) fenobucarb; |

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- (XL) tebufenozide;
 (XLI) fipronil;
 (XLII) beta-cyfluthrin;
 (XLIII) silafluofen;
 (LI) avermectin B₁ (abamectin);
 (LII) a plant extract which is active against insects;
 (LIII) a preparation which comprises nematodes which are active against insects;
 (LIV) a preparation obtainable from *Bacillus subtilis*;
 (LV) a preparation which comprises fungi which are active against insects;
 (LVI) a preparation which comprises viruses which are active against insects;
 (LVII) AC 303 630;
 (LVIII) acephate;
 (LIX) acrinathrin;
 (LX) alanycarb;
 (LXI) alphamethrin;
 (LXII) amitraz;
 (LXIII) AZ 60541;
 (LXIV) azinphos A;
 (LXV) azinphos M;
 (LXVI) azocyclotin;
 (LXVII) bendiocarb;
 (LXVIII) bensultap;
 (LXIX) betacyfluthrin;
 (LXX) BPMC;
 (LXXI) brofenprox;
 (LXXII) bromophos A;
 (LXXIII) bufencarb;
 (LXXIV) butocarboxin;
 (LXXV) butylpyridaben;
 (LXXVI) cadusafos;
 (LXXVII) carbaryl;
 (LXXVIII) carbophenothion;
 (XLIV) fenpyroximate;
 (XLV) pyridaben;
 (XLVI) fenazaquin;
 (XLVII) pyriproxyfen;
 (LXXIX) chloethocarb;
 (LXXX) chloroethoxyfos;
 (LXXXI) chloromephos;
 (LXXXII) cis-res-methrin;
 (LXXXIII) clocythrin;
 (LXXXIV) clofentezin;
 (LXXXV) cyanophos;
 (LXXXVI) cycloprothrin;
 (LXXXVII) cyhexatin;
 (LXXXVIII) demeton M;
 (LXXXIX) demeton S;
 (XC) demeton-S-methyl;
 (XCI) dichlofenthion;
 (XCII) dicliphos;
 (XCIII) diethion;
 (XCIV) dimethoate;
 (XCV) dimethylvinphos;
 (XCVI) dioxathion;
 (XCVII) edifenphos;
 (XCVIII) emamectin;
 (XCIX) esfenvalerate;
 (C) ethion;
 (CI) ethofenprox;
 (XLVIII) pyrimidifen;
 (XLIX) nitenpyram;
 (L) NI-25, acetamiprid;
 (CII) ethoprophos;
 (CIII) etrimphos;
 (CIV) fenamiphos;
 (CV) fenbutatin oxide;
 (CVI) fenothiocarb;
 (CVII) fenpropathrin;
 (CVIII) fenpyrad;
 (CIX) fenthion;
 (CX) fluazinam;
 (CXI) flucycloxuron;
 (CXII) flucythrinate;
 (CXIII) flufenoxuron;
 (CXIV) flufenprox;
 (CXV) fonophos;
 (CXVI) fosthiazate;
 (CXVII) fubfenprox;
 (CXVIII) HCH;
 (CXIX) hexaflumuron;
 (CXX) hexythiazox;
 (CXXI) iprobenfos;
 (CXXII) isofenphos;
 (CXXIII) isoxathion;
 (CXXIV) ivermectin;

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(CXXV) lambda-cyhalothrin;
 (CXXVI) malathion;
 (CXXVII) mecarbam;
 (CXXVIII) mesulfenphos;
 (CXXIX) metaldehyde;
 (CXXX) metolcarb;
 (CXXXI) milbemectin;
 (CXXXII) moxidectin;
 (CXXXIII) naled;
 (CXXXIV) NC 184;
 (CXXXV) omethoate;
 (CXXXVI) oxamyl;
 (CXXXVII) oxydemeton M;
 (CXXXVIII) oxydeprofos;
 (CXXXIX) permethrin;
 (CXL) phenthoate;
 (CXLI) phorate;
 (CXLII) phosmet;
 (CXLIII) phoxim;
 (CXLIV) pirimiphos M;
 and at least one auxiliary.

(CXLV) pirimiphos A;
 (CXLVI) promecarb;
 (CXLVII) propaphos;
 (CXLVIII) prothiofos;
 (CXLIX) prothoate;
 (CL) pyrachlophos;
 (CLI) pyrada-phenthion;
 (CLII) pyresmethrin;
 (CLIII) pyrethrum;
 (CLIV) RH 5992;
 (CLV) salithion;
 (CLVI) sebufos;
 (CLVII) sulfotep;
 (CLVIII) sulprofos;
 (CLIX) tebufenpyrad;
 (CLX) tebupirimphos;
 (CLXI) tefluthrin;
 (CLXII) temephos;
 (CLXIII) terbam;
 (CLXIV) tetrachlorovinphos;
 (CLXV) thiafenox;
 (CLXVI) thiodicarb;
 (CLXVII) thiofanox;
 (CLXVIII) thionazin;
 (CLXIX) thuringiensin;
 (CLXX) tralomethrin;
 (CLXXI) triarthen;
 (CLXXII) triazophos;
 (CLXXIII) triazuron;
 (CLXXIV) trichlorofon;
 (CLXXV) triflumuron;
 (CLXXVI) trimethacarb;
 (CLXXVII) vamidothion;
 (CLXXVIII) xylylcarb;
 (CLXXIX) YI 5301/5302;
 (CLXXX) zetamethrin;
 (CLXXXI) DPX-MP062;
 (CLXXXII) RH-2485;
 (CLXXXIII) D 2341; or
 (CLXXXIV) XMC (3,5-xylylmethylcarbamate),

2. A composition according to claim 1, in which, in the compound of the formula (A), R is hydrogen, C₁-C₄alkyl, C₃-C₆cycloalkyl, C₂-C₆alkenyl or C₂-C₆alkynyl.
3. A composition according to claim 1 or 2, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 2 to 4 double bonds.
4. A composition according to any one of claims 1 to 3, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 1 up to and including 4 heteroatoms.

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5. A composition according to any one of claims 1 to 4, in which, in the compound of the formula (A), the cyclic base skeleton of A contains 1, 2 or 3 heteroatoms, chosen from the group consisting of oxygen, sulfur and nitrogen, not more than one of the heteroatoms contained in the cyclic base skeleton being an oxygen or a sulfur atom.

6. A composition according to any one of claims 1 to 5, in which, in the compound of the formula (A) the cyclic base skeleton of A is mono- or disubstituted by substituents chosen from the group consisting of halogen and C₁-C₃alkyl.

7. A composition according to any one of claims 1 to 6, in which, in the compound of the formula (A), the cyclic base skeleton of A is a pyridyl, 1-oxypyridinio or thiazolyl group.

8. A composition according to any one of claims 1 to 7, in which, in the compound of the formula (A), X is N-NO₂.

9. A composition according to claim 1, which comprises either

(A.1) (2-chloropyrid-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.2) (2-chlorothiazol-5-ylmethyl)-3-ethyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.3) 3-methyl-4-nitroimino-5-(1-oxido-3-pyridinimethyl)-perhydro-1,3,5-oxadiazine;

(A.4) (2-chloro-1-oxido-5-pyridinimethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.5) (2-chlorothiazol-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.6) 3-methyl-5-(2-methylpyrid-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.7) (2-chloropyrid-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine;

(A.8) (2-chlorothiazol-5-ylmethyl)-4-nitroimino-perhydro-1,3,5-oxadiazine; or

(A.9) (2-chloropyrid-5-ylmethyl)-3-ethyl-4-nitroimino-perhydro-1,3,5-oxadiazine.

10. A composition according to any one of claims 1 to 9, which comprises 5-(2-chlorothiazol-5-ylmethyl)-3-methyl-4-nitroimino-perhydro-1,3,5-oxadiazine.

11. A composition according to any one of claims 1 to 10, which comprises only one of the compounds (I) to (CLXXXIV).

12. A composition according to any one of claims 1 to 11 which comprises pyriproxyfen.

13. A composition according to any one of claims 1 to 11, which comprises fipronil.

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14. A composition according to any one of claims 1 to 11, which comprises endosulfan.
 15. A composition according to any one of claims 1 to 11, which comprises buprofezin.
 16. A composition according to any one of claims 1 to 11, which comprises pirimicarb.
 17. A method of controlling pests, which comprises applying a composition as defined in any one of claims 1 to 16, to the pests or their environment.
 18. A method according to claim 17, for the protection of plant propagation material, which comprises treating the plant propagation material or the site where the propagation material is brought out.
 19. A process for the preparation of a composition comprising at least one auxiliary as defined in any one of claims 1 to 16, which comprises intimately mixing the active compounds with the auxiliary or auxiliaries.
 20. Plant propagation material treated by the method defined in claim 18.
 21. The use of a composition as defined in any one of claims 1 to 16, in a method as defined in claim 17 or 18.
 22. The use of a compound of the formula (A), in the free form or in an agrochemically usable salt form, for the preparation of a composition as defined in any one of claims 1 to 16.
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